

10/551,772 STN

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NEWS 10 DEC 11 CAS REGISTRY chemical nomenclature enhanced
NEWS 11 DEC 14 WPIDS/WPINDEX/WPIX manual codes updated
NEWS 12 DEC 14 GBFULL and FRFULL enhanced with IPC 8 features and functionality
NEWS 13 DEC 18 CA/CAplus pre-1967 chemical substance index entries enhanced with preparation role
NEWS 14 DEC 18 CA/CAplus patent kind codes updated
NEWS 15 DEC 18 MARPAT to CA/CAplus accession number crossover limit increased to 50,000
NEWS 16 DEC 18 MEDLINE updated in preparation for 2007 reload
NEWS 17 DEC 27 CA/CAplus enhanced with more pre-1907 records
NEWS 18 JAN 08 CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 19 JAN 16 CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS 20 JAN 16 IPC version 2007.01 thesaurus available on STN
NEWS 21 JAN 16 WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 22 JAN 22 CA/CAplus updated with revised CAS roles
NEWS 23 JAN 22 CA/CAplus enhanced with patent applications from India
NEWS 24 JAN 29 PHAR reloaded with new search and display fields
NEWS 25 JAN 29 CAS Registry Number crossover limit increased to 300,000 in multiple databases

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
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STRUCTURE FILE UPDATES: 29 JAN 2007 HIGHEST RN 918776-45-1
DICTIONARY FILE UPDATES: 29 JAN 2007 HIGHEST RN 918776-45-1

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

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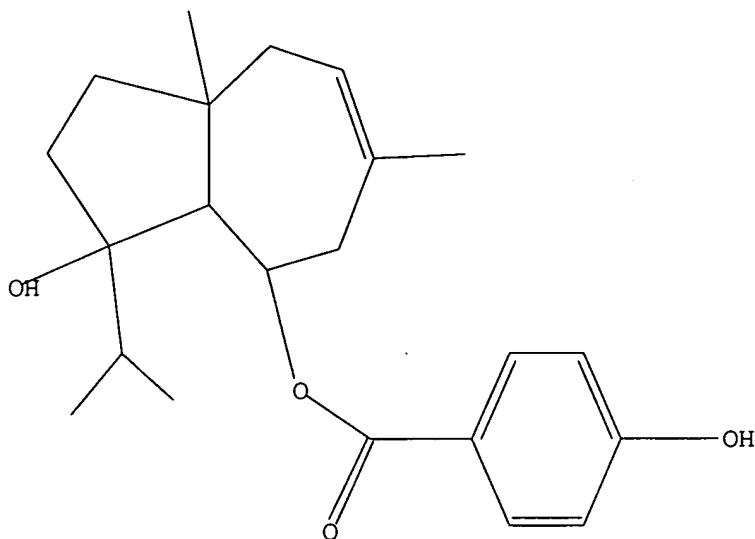
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> Uploading C:\Program Files\Stnexp\Queries\10_551772_2.str

L1 STRUCTURE UPLOADED

=> d 11
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> s 11 sss sam
SAMPLE SEARCH INITIATED 16:17:21 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 29 TO ITERATE

100.0% PROCESSED 29 ITERATIONS 4 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

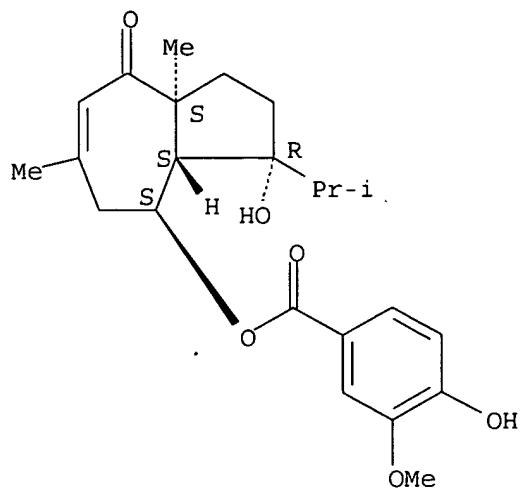
PROJECTED ITERATIONS: 257 TO 903
PROJECTED ANSWERS: 4 TO 200
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L2 4 SEA SSS SAM L1

=> d scan

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L2 4 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Benzoic acid, 4-hydroxy-3-methoxy-, (3R,3aS,4S,8aS)-1,2,3,3a,4,5,8,8a-
octahydro-3-hydroxy-6,8a-dimethyl-3-(1-methylethyl)-8-oxo-4-azulenyl ester
(9CI)
MF C23 H30 O6
```

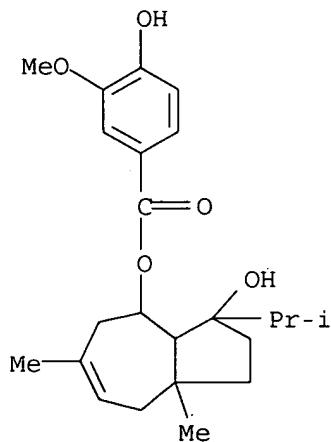
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

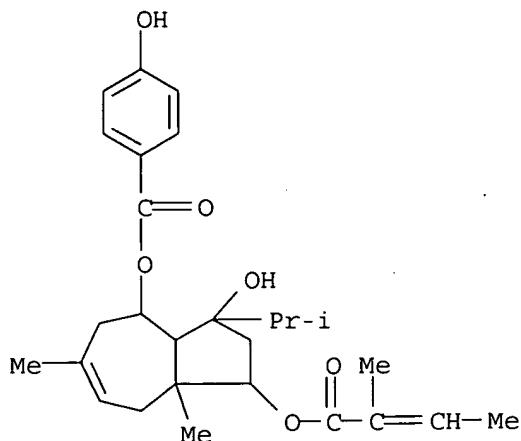
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L2 4 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN Benzoic acid, 4-hydroxy-3-methoxy-, 1,2,3,3a,4,5,8,8a-octahydro-3-hydroxy-
 6,8a-dimethyl-3-(1-methylethyl)-4-azulenyl ester (9CI)
 MF C23 H32 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 4 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN Benzoic acid, 4-hydroxy-, 1,2,3,3a,4,5,8,8a-octahydro-3-hydroxy-6,8a-
 dimethyl-3-(1-methylethyl)-1-[(2-methyl-1-oxo-2-butenyl)oxy]-4-azulenyl
 ester (9CI)
 MF C27 H36 O6

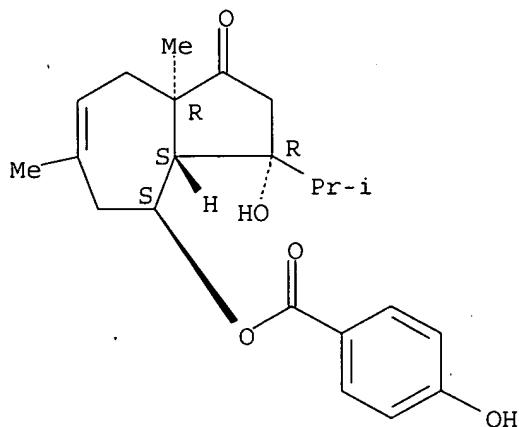


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

L2 4 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN Benzoic acid, 4-hydroxy-, (3R,3aS,4S,8aR)-1,2,3,3a,4,5,8,8a-octahydro-3-hydroxy-6,8a-dimethyl-3-(1-methylethyl)-1-oxo-4-azulenyl ester (9CI)
 MF C22 H28 O5

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

```
=> s 11 sss full
FULL SEARCH INITIATED 16:18:04 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 450 TO ITERATE
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100.0% PROCESSED 450 ITERATIONS
SEARCH TIME: 00.00.01

29 ANSWERS

L3 29 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
FULL ESTIMATED COST ENTRY SESSION
172.55 172.76

FILE 'CAPLUS' ENTERED AT 16:18:12 ON 30 JAN 2007
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FILE LAST UPDATED: 29 Jan 2007 (20070129/ED)

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=> s 13/prep
78 L3
4352731 PREP/RL
L4 15 L3/PREP
(L3 (L) PREP/RL)

=> d ibib abs hitstr 1-
YOU HAVE REQUESTED DATA FROM 15 ANSWERS - CONTINUE? Y/(N):y

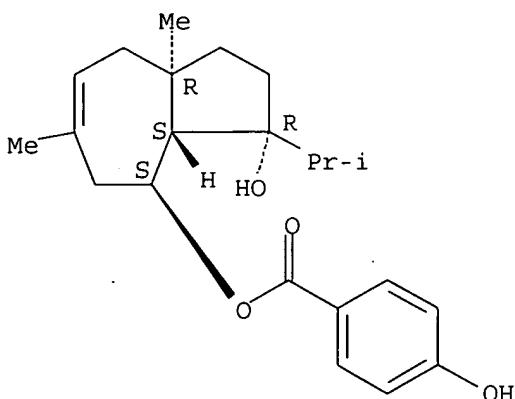
L4 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:635524 CAPLUS
DOCUMENT NUMBER: 146:19979
TITLE: Ferutinin stimulates nitric oxide synthase activity in median eminence of the rat
AUTHOR(S): Colman-Saizarbitoria, Trina; Boutros, Paulo; Amesty, Angel; Bahsas, Ali; Mathison, Yaira; Garrido, Maria del Rosario; Israel, Anita
CORPORATE SOURCE: Laboratory of Bioassays and Natural Products, Laboratory of Molecular Modeling, School of Pharmacy, Universidad Central de Venezuela, Caracas, Venez.
SOURCE: Journal of Ethnopharmacology (2006), 106(3), 327-332
CODEN: JOETD7; ISSN: 0378-8741
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Several species of *Ferula* genus have been used in folk medicine in digestive disorders, rheumatism, headache, arthritis, and as tranquilizers, antispasmodic and aphrodisiac. From the dry and powdered roots of *Ferula hermonis* Boiss was extracted the oxygenated sesquiterpene 1,5-trans-daucane type: ferutinine (1). The structure of (1) was established by spectroscopic methods as: IR, 1H RMN, 13C RMN, COSY, HMBC, HMQC, NOESY, EIMS, and CIMS. The possible signaling pathway of ferutinin

(1) in nervous tissue in vitro was assessed and the results showed that this compound is able to increase nitric oxide synthase activity and inositol monophosphate accumulation (49%, each) in the median eminence of the rat brain, suggesting that compound (1) is associated to the activation of phosphoinositide breakdown and nitric oxide production (NO), the last is a gaseous intercellular messenger known to play a broad role in human biol. from homeostasis to pathol.

IT 41743-44-6P, Ferutinin
 RL: NPO (Natural product occurrence); PAC (Pharmacological activity); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
 (ferutinin extracted from *Ferula hermonis* increased nitric oxide synthase activity, phosphoinositide breakdown and inositol monophosphate accumulation in median eminence rat brain)

RN 41743-44-6 CAPLUS
 CN Benzoic acid, 4-hydroxy-, (3R,3aS,4S,8aR)-1,2,3,3a,4,5,8,8a-octahydro-3-hydroxy-6,8a-dimethyl-3-(1-methylethyl)-4-azulenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2005:681613 CAPLUS
 DOCUMENT NUMBER: 143:302470
 TITLE: Rare trisubstituted sesquiterpenes daucanes from the wild *Daucus carota*
 AUTHOR(S): Ahmed, Ahmed A.; Bishr, Mohktar M.; El-Shanawany, Mohamed A.; Attia, Eman Z.; Ross, Samir A.; Pare, Paul W.
 CORPORATE SOURCE: Department of Chemistry, Faculty of Science, El-Minia University, El-Minia, 61519, Egypt
 SOURCE: Phytochemistry (Elsevier) (2005), 66(14), 1680-1684
 CODEN: PYTCAS; ISSN: 0031-9422
 PUBLISHER: Elsevier B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Phytochem. and biol. investigation of the roots of the wild *Daucus carota* ssp. *carota* afforded three new and four known compds., including four sesquiterpenes daucane esters (1-3 [new], and 4), one polyacetylene (5), one sesquiterpene coumarin (6), and sitosterol glucoside. The structures of the new compds. were determined by comprehensive NMR studies, including DEPT, COSY, NOESY, HMQC and HMBC analyses. Based on an agar diffusion assay, 1, 2 and 4-6 were screened and found to contain a range of low antibacterial activities against four gram pos. (*Staphylococcus aureus*,

Streptomyces scabies, *Bacillus subtilis*, *Bacillus cereus*) and two gram neg. species (*Pseudomonas aeruginosa*, *Escherichia coli*) as well as antifungal against *Fusarium oxysporum* and *Aspergillus niger* using cup agar diffusion assay.

IT 864966-99-4P

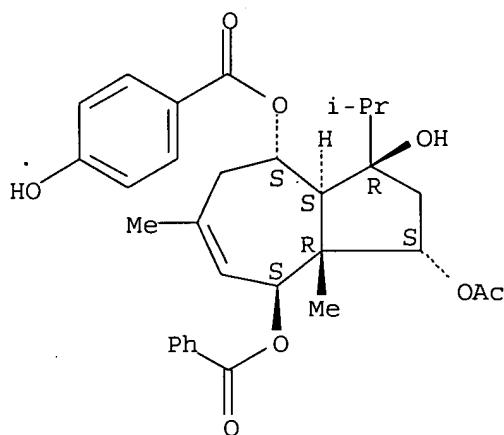
RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation) (trisubstituted sesquiterpenes Daucus carota)

RN 864966-99-4 CAPLUS

CN Benzoic acid, 4-hydroxy-, (1R,3S,3aR,4R,8R,8aS)-1-(acetyloxy)-8-(benzoyloxy)-1,2,3,3a,4,5,8,8a-octahydro-3-hydroxy-6,8a-dimethyl-3-(1-methylethyl)-4-azulenyl ester, rel-(+)- (9CI) (CA INDEX NAME)

Rotation (+). Absolute stereochemistry unknown.

Currently available stereo shown.



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:857419 CAPLUS

DOCUMENT NUMBER: 141:337637

TITLE: A process for the preparation of ferutinin from Ferula genus plants

INVENTOR(S): Bombardelli, Ezio; Fontana, Gabriele; Cristoni, Aldo; Mercalli, Enrico

PATENT ASSIGNEE(S): Indena S.P.A., Italy

SOURCE: PCT Int. Appl., 20 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

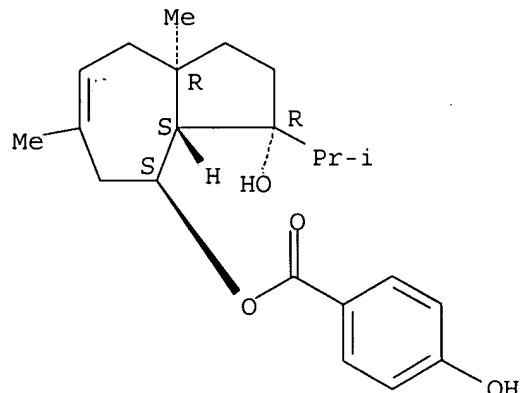
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004087179	A1	20041014	WO 2004-EP3055	20040323
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,				

ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
 SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
 TD, TG
 AU 2004226853 A1 20041014 AU 2004-226853 20040323
 CA 2521100 A1 20041014 CA 2004-2521100 20040323
 EP 1615651 A1 20060118 EP 2004-722572 20040323
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK
 BR 2004009166 A 20060411 BR 2004-9166 20040323
 CN 1767841 A 20060503 CN 2004-80009111 20040323
 JP 2006522043 T 20060928 JP 2006-504815 20040323
 NO 2005004545 A 20051006 NO 2005-4545 20051003
 US 2006275246 A1 20061207 US 2005-551772 20051003
 PRIORITY APPLN. INFO.: IT 2003-MI661 A 20030404
 WO 2004-EP3055 W 20040323

AB The invention relates to a process for the preparation of ferutinin from Ferula spp exts. comprising basic hydrolysis of the exts. and treatment with p-pivaloyloxybenzoic acid. The invention relates also to the use of the exts. and ferutinin in the cosmetic and dermatol. field.
 IT 41743-44-6P, Ferutinin
 RL: BPN (Biosynthetic preparation); COS (Cosmetic use); NPO (Natural product occurrence); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
 (process for the preparation of ferutinin from Ferula genus plants)
 RN 41743-44-6 CAPLUS
 CN Benzoic acid, 4-hydroxy-, (3R,3aS,4S,8aR)-1,2,3,3a,4,5,8,8a-octahydro-3-hydroxy-6,8a-dimethyl-3-(1-methylethyl)-4-azulenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:690919 CAPLUS
 DOCUMENT NUMBER: 141:366336
 TITLE: Structure-Activity Relationships of the Estrogenic Sesquiterpene Ester Ferutinin. Modification of the Terpenoid Core
 AUTHOR(S): Appendino, Giovanni; Spagliardi, Paola; Sterner, Olov;
 Milligan, Stuart
 CORPORATE SOURCE: Dipartimento di Scienze Chimiche Alimentari
 Farmaceutiche e Farmacologiche, Universita del
 Piemonte Orientale, Novara, 28100, Italy
 SOURCE: Journal of Natural Products (2004), 67(9), 1557-1564

PUBLISHER:
DOCUMENT TYPE:
LANGUAGE:
OTHER SOURCE(S):
GI

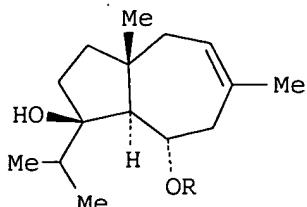
CODEN: JNPRDF; ISSN: 0163-3864

American Chemical Society

Journal

English

CASREACT 141:366336



I

AB Esterification of p-hydroxybenzoic acid, a very weak estrogenic compound, with the daucane alc. jaeschkeanadiol (I; R = H) leads to a spectacular magnification of the estrogenic activity. To identify the structural elements responsible for this effect, the terpenoid core of jaeschkeanadiol p-hydroxybenzoate (ferutinin, I; R = COC₆H₄OH-4) was modified, capitalizing on the presence of two functionalities, the monoacylated, hydrogen-bonded 1,3-diol system and the double bond. The hydrogen bonding, while possibly useful, was not critical for activity, while hydrogenation and cyclopropanation of the double bond were tolerated. Conversely, oxidative modifications of the double bond that placed a hydroxyl on the α -face of the mol. proved detrimental. Taken together, these observations identified the substitution at C-8/C-9 as critical for activity.

IT 109517-73-9P, 14-Hydroxyferutinin 302342-52-5P,

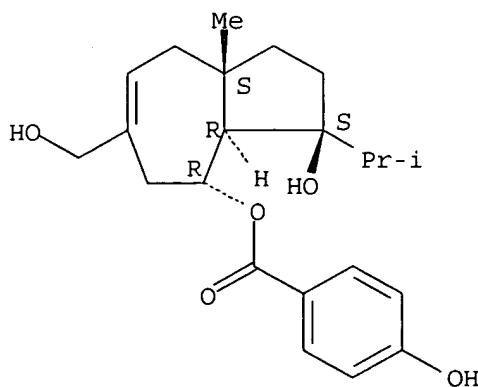
14-Oxoferutinin

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and estrogenic activity of ferutinin analogs)

RN 109517-73-9 CAPLUS

CN Benzoic acid, 4-hydroxy-, (3R,3aS,4S,8aR)-1,2,3,3a,4,5,8,8a-octahydro-3-hydroxy-6-(hydroxymethyl)-8a-methyl-3-(1-methylethyl)-4-azulenyl ester, rel-(+)-(9CI) (CA INDEX NAME)

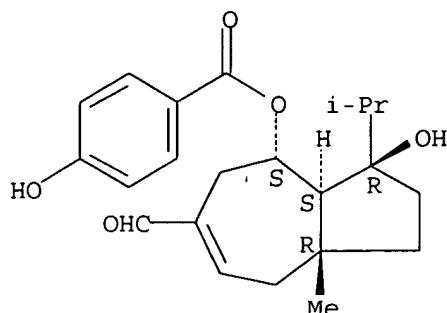
Rotation (+). Absolute stereochemistry unknown.



RN 302342-52-5 CAPLUS

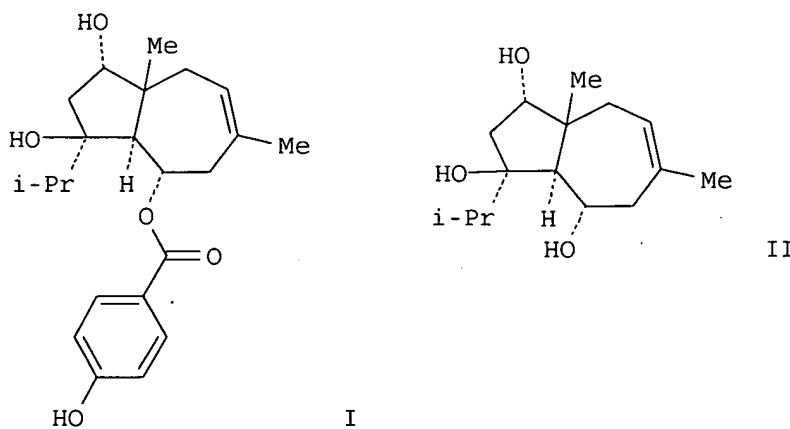
CN Benzoic acid, 4-hydroxy-, (3R,3aS,4S,8aR)-6-formyl-1,2,3,3a,4,5,8,8a-octahydro-3-hydroxy-8a-methyl-3-(1-methylethyl)-4-azulenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:541439 CAPLUS
DOCUMENT NUMBER: 141:346209
TITLE: Structure of Samferine
AUTHOR(S): Eshbakova, K. A.; Saidkhodzhaev, A. I.
CORPORATE SOURCE: S. Yu. Yunusov Institute of the Chemistry of Plant Substances, Academy of Sciences of the Republic of Uzbekistan, Uzbekistan
SOURCE: Chemistry of Natural Compounds (Translation of Khimiya Prirodnykh Soedinenii) (2004), 40(2), 194-195
CODEN: CHNCA8; ISSN: 0009-3130
PUBLISHER: Kluwer Academic/Consultants Bureau
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



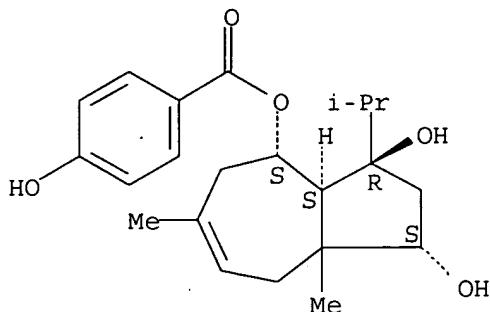
AB The authors have isolated a new compound samferine (I), of formula C₂₂H₃₀O₅, from the roots of *F. samarcandica* Korov. Alkaline hydrolysis of I produced a sesquiterpene alc. samferol (II), of the formula C₁₅H₂₆O₃, from the neutral part of the hydrolyzate.

IT 774577-57-0P, Samferine

RL: NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); RCT (Reactant); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); RACT (Reactant or reagent)
(isolation and mol. structure of sesquiterpene ester samferine from *F.*

samarcantica)
RN 774577-57-0 CAPLUS
CN Benzoic acid, 4-hydroxy-, (1R,3S,3aR,4R)-1,2,3,3a,4,5,8,8a-octahydro-1,3-dihydroxy-6,8a-dimethyl-3-(1-methylethyl)-4-azulenyl ester, rel- (9CI) (CA INDEX NAME)

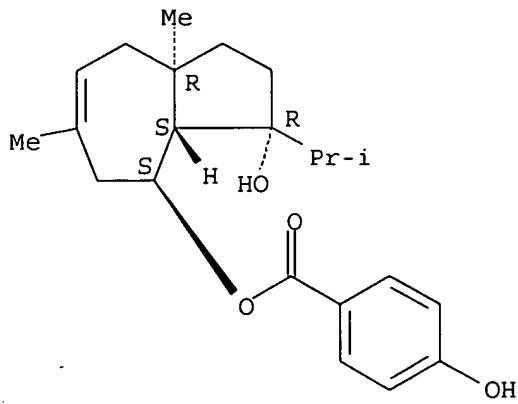
Relative stereochemistry.
Currently available stereo shown.



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:709827 CAPLUS
DOCUMENT NUMBER: 137:363261
TITLE: Daucane phytoestrogens: a structure-activity study
AUTHOR(S): Appendino, Giovanni; Spagliardi, Paola; Cravotto, Giancarlo; Pocock, Victoria; Milligan, Stuart
CORPORATE SOURCE: Dipartimento di Scienze Chimiche, Alimentari, Farmaceutiche e Farmacologiche, Universita del Piemonte Orientale, Novara, 28100, Italy
SOURCE: Journal of Natural Products (2002), 65(11), 1612-1615
CODEN: JNPRDF; ISSN: 0163-3864
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The estrogenic activity of a series of analogs of the daucane ester ferutinin modified at the acyl moiety was investigated in a yeast screen containing the human estrogen receptor α . Rather strict structure-activity relationships were observed. Thus, while the parent polyol (jaeschkeanadiol) was inactive, the presence of a p-hydroxybenzoyl moiety was necessary for activity in the yeast screen. Homologation and vinylation were both detrimental for activity, as were methylation of the p-hydroxyl substituent and the introduction of oxygen functions on the adjacent carbons.
IT 41743-44-6DP, Ferutinin, derivs. 41743-44-6P, Ferutinin
54526-95-3P 126783-56-0P
RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(daucane phytoestrogens: a structure-activity study)
RN 41743-44-6 CAPLUS
CN Benzoic acid, 4-hydroxy-, (3R,3aS,4S,8aR)-1,2,3,3a,4,5,8,8a-octahydro-3-hydroxy-6,8a-dimethyl-3-(1-methylethyl)-4-azulenyl ester (9CI) (CA INDEX NAME)

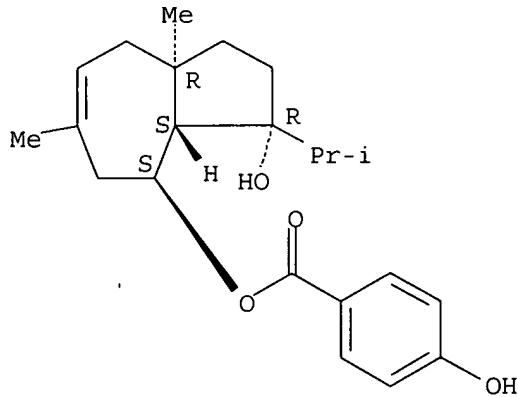
Absolute stereochemistry.



RN 41743-44-6 CAPLUS

CN Benzoic acid, 4-hydroxy-, (3R,3aS,4S,8aR)-1,2,3,3a,4,5,8,8a-octahydro-3-hydroxy-6,8a-dimethyl-3-(1-methylethyl)-4-azulenyl ester (9CI) (CA INDEX NAME)

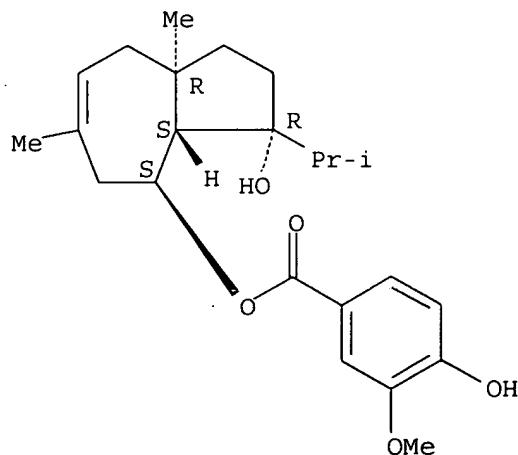
Absolute stereochemistry.



RN 54526-95-3 CAPLUS

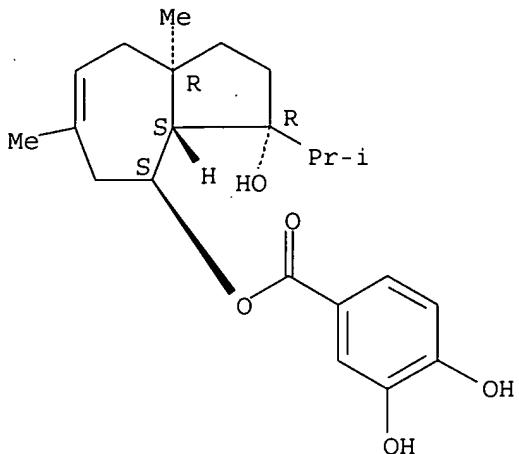
CN Benzoic acid, 4-hydroxy-3-methoxy-, (3R,3aS,4S,8aR)-1,2,3,3a,4,5,8,8a-octahydro-3-hydroxy-6,8a-dimethyl-3-(1-methylethyl)-4-azulenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 126783-56-0 CAPLUS
CN Benzoic acid, 3,4-dihydroxy-, (3R,3aS,4S,8aR)-1,2,3,3a,4,5,8,8a-octahydro-3-hydroxy-6,8a-dimethyl-3-(1-methylethyl)-4-azulenyl ester (9CI) (CA INDEX NAME)

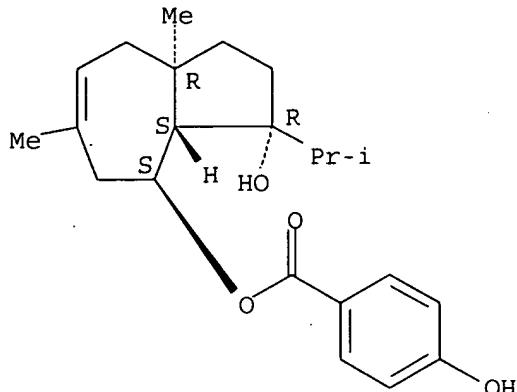
Absolute stereochemistry.



REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:315620 CAPLUS
DOCUMENT NUMBER: 137:332761
TITLE: Antimicrobial sesquiterpene from the roots of Ferula harmonis
AUTHOR(S): Al-Sha'er, M.; Darwish, R. M.; Aburjai, T.
CORPORATE SOURCE: Department of Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan, Amman, 11942, Jordan
SOURCE: Acta Technologiae et Legis Medicamenti (2001), 12(3), 255-264
CODEN: ATLMEQ; ISSN: 1121-2098
PUBLISHER: Maccari Editore
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Two known sesquiterpenes were isolated for the first time from the roots of Ferula harmonis F. (Umbelliferae). Their structures were assigned by spectroscopic (MS, 1H-NMR, 13C-NMR) and phys. means as ferutinin and teferidine. The antimicrobial activity of the crude exts. and the isolated compds. was tested against four different microorganisms. Ferutinin showed good antibacterial activity against S. aureus and weak antifungal activity against A. niger. Teferidine, showed no antimicrobial activity against the tested microorganisms. Our results revealed the importance of the phenolic hydroxyl group for the antimicrobial activity of these compds.
IT 41743-44-6P, Ferutinin
RL: NPO (Natural product occurrence); PAC (Pharmacological activity); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(antimicrobial sesquiterpene from the roots of Ferula harmonis)
RN 41743-44-6 CAPLUS
CN Benzoic acid, 4-hydroxy-, (3R,3aS,4S,8aR)-1,2,3,3a,4,5,8,8a-octahydro-3-hydroxy-6,8a-dimethyl-3-(1-methylethyl)-4-azulenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2001:771413 CAPLUS
 DOCUMENT NUMBER: 136:180636
 TITLE: Sesquiterpenoids from the fruits of *Ferula kuhistanica* and antibacterial activity of the constituents of *F. kuhistanica*
 AUTHOR(S): Tamemoto, Kimiko; Takaishi, Yoshihisa; Chen, Bei; Kawazoe, Kazuyoshi; Shibata, Hirofumi; Higuti, Tomihiko; Honda, Gisho; Ito, Michiho; Takeda, Yoshio; Kodzhimatov, Olimjon K.; Ashurmetov, Ozodbek
 CORPORATE SOURCE: Faculty of Pharmaceutical Sciences, University of Tokushima, Tokushima, 770-8505, Japan
 SOURCE: Phytochemistry (2001), 58(5), 763-767
 CODEN: PYTCAS; ISSN: 0031-9422
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Et acetate exts. of the air-dried fruits of *Ferula kuhistanica* afforded three daucane esters: kuhistanicaols H, I and J (I, II, and III, resp.), together with nine other known compds. Their structures were established on the basis of spectroscopic evidence. Isolated compds. in this paper and previously reported compds. from the roots and stems of *F. kuhistanica* were tested for antibacterial activity. Some of them were selectively toxic against Gram-pos. bacteria, including methicillin-sensitive and methicillin-resistant *Staphylococcus aureus* (MSSA and MRSA).

IT 41743-44-6P

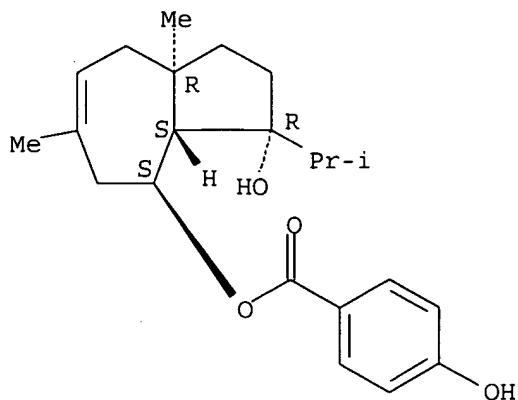
RL: PAC (Pharmacological activity); PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(purification from *Ferula kuhistanica* fruit and antibacterial activity of)

RN 41743-44-6 CAPLUS

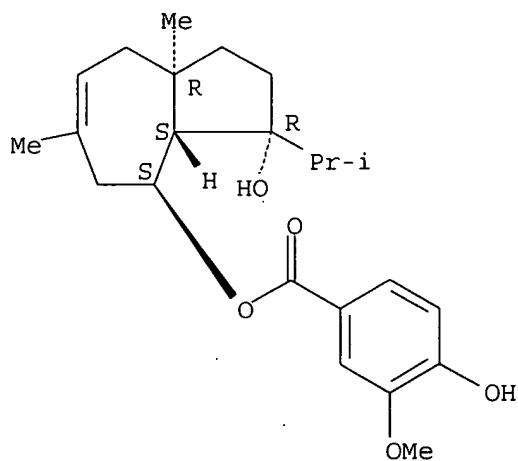
CN Benzoic acid, 4-hydroxy-, (3R,3aS,4S,8aR)-1,2,3,3a,4,5,8,8a-octahydro-3-hydroxy-6,8a-dimethyl-3-(1-methylethyl)-4-azulenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



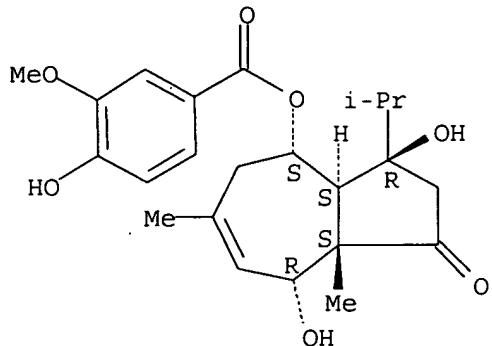
IT 54526-95-3P
 RL: PAC (Pharmacological activity); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (purification from Ferula kuhistanica fruit and antibacterial activity of)
 RN 54526-95-3 CAPLUS
 CN Benzoic acid, 4-hydroxy-3-methoxy-, (3R,3aS,4S,8aR)-1,2,3,3a,4,5,8,8a-octahydro-3-hydroxy-6,8a-dimethyl-3-(1-methylethyl)-4-azulenyl ester (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



IT 399035-10-0P, Kuhistanicaol I
 RL: NPO (Natural product occurrence); PAC (Pharmacological activity); PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
 (sesquiterpenoids from the fruit of Ferula kuhistanica and antibacterial activity of the constituents of F. kuhistanica)
 RN 399035-10-0 CAPLUS
 CN Benzoic acid, 4-hydroxy-3-methoxy-, (3R,3aS,4S,8R,8aS)-1,2,3,3a,4,5,8,8a-octahydro-3,8-dihydroxy-6,8a-dimethyl-3-(1-methylethyl)-1-oxo-4-azulenyl ester (9CI) (CA INDEX NAME)

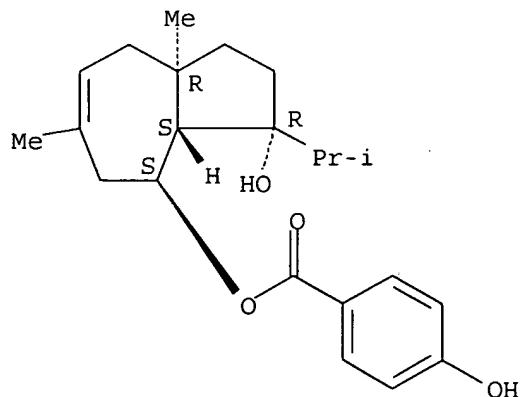
Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

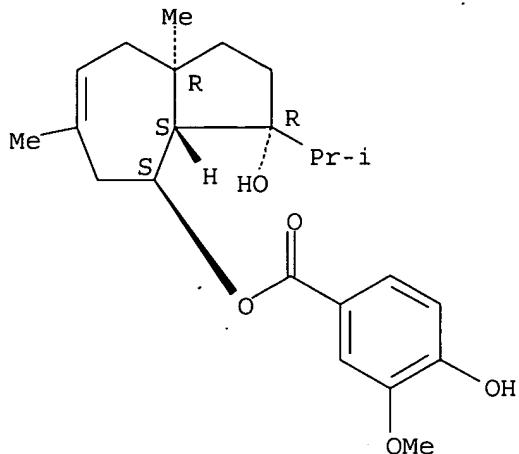
L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2001:286907 CAPLUS
 DOCUMENT NUMBER: 135:43518
 TITLE: Daucane aryl esters composition from the Lebanese Ferula hermonis Boiss. (zallooh root)
 AUTHOR(S): Diab, Youssef; Dolazon, Rene; Bessiere, Jean-Marie
 CORPORATE SOURCE: Université Libanaise, Faculte des Sciences-2, Jdaidet el-Matn, Lebanon
 SOURCE: Flavour and Fragrance Journal (2001), 16(2), 120-122
 CODEN: FFJOED; ISSN: 0882-5734
 PUBLISHER: John Wiley & Sons Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The dichloromethane extract of Ferula hermonis roots, isolated in 26.5% yield based on dry roots, contained as principal components p-hydroxybenzoate and benzoate of jaeschkeanadiol (52% and 30%, resp.). Some other aryl esters of jaeschkeanadiol and 2,3-epoxide jaeschkeanadiol, as well as α-bisabolol, were present in small amounts.
 IT 41743-44-6P, Jaeschkeanadiol p-hydroxybenzoate 54526-95-3P
 , Teferin
 RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
 (daucane aryl esters composition from the Lebanese Ferula hermonis (zallooh root))
 RN 41743-44-6 CAPLUS
 CN Benzoic acid, 4-hydroxy-, (3R,3aS,4S,8aR)-1,2,3,3a,4,5,8,8a-octahydro-3-hydroxy-6,8a-dimethyl-3-(1-methylethyl)-4-azulenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 54526-95-3 CAPLUS
CN Benzoic acid, 4-hydroxy-3-methoxy-, (3R,3aS,4S,8aR)-1,2,3,3a,4,5,8,8a-octahydro-3-hydroxy-6,8a-dimethyl-3-(1-methylethyl)-4-azulenyl ester (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:4915 CAPLUS
DOCUMENT NUMBER: 134:219768
TITLE: Sesquiterpenes from Ferula hermonis Boiss
AUTHOR(S): Galal, A.
CORPORATE SOURCE: National Center for Natural Products Research, School of Pharmacy, University of Mississippi, University, MS, 38677, USA

SOURCE: Pharmazie (2000), 55(12), 961-962
CODEN: PHARAT; ISSN: 0031-7144

PUBLISHER: Govi-Verlag Pharmazeutischer Verlag

DOCUMENT TYPE: Journal

LANGUAGE: English

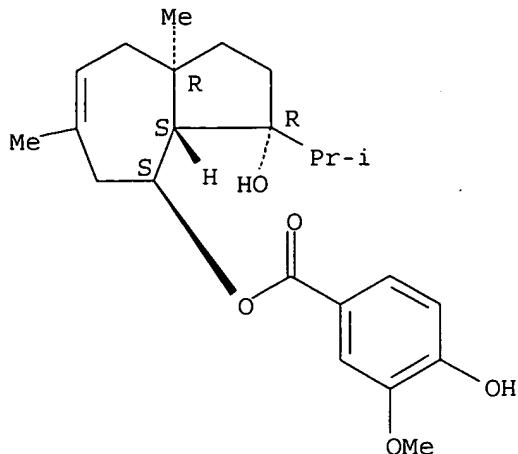
AB The roots of Ferula hermonis yielded the new 8,9-epoxy derivative of the carotane sesquiterpene jaeschkeanadiol, together with 2 other known sesquiterpenes: (+)- α -bisabolol and jaeschkeanadiol vanillate. The identities of the isolated compds. were established from their spectral data and by comparison with published reports.

IT 54526-95-3P
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(sesquiterpenes from Ferula hermonis)

RN 54526-95-3 CAPLUS

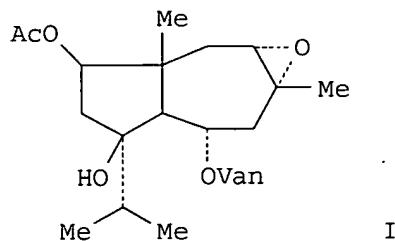
CN Benzoic acid, 4-hydroxy-3-methoxy-, (3R,3aS,4S,8aR)-1,2,3,3a,4,5,8,8a-octahydro-3-hydroxy-6,8a-dimethyl-3-(1-methylethyl)-4-azulenyl ester (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2000:590836 CAPLUS
 DOCUMENT NUMBER: 133:319520
 TITLE: Sesquiterpenoids from Ferula kuhistanica
 AUTHOR(S): Chen, B.; Teranishi, R.; Kawazoe, K.; Takaishi, Y.;
 Honda, G.; Itoh, M.; Takeda, Y.; Kodzhimatov, O. K.
 CORPORATE SOURCE: Fac. Pharm. Sci., Univ. Tokushima, Tokushima,
 770-8505, Japan
 SOURCE: Phytochemistry (2000), 54(7), 717-722
 CODEN: PYTCAS; ISSN: 0031-9422
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



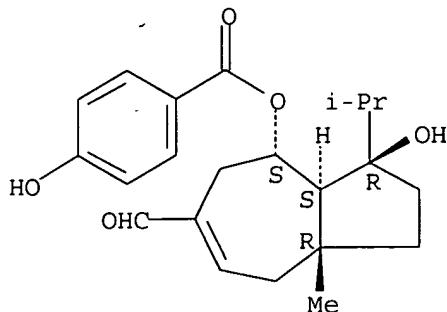
AB Methanol exts. of the air-dried roots and stems of *Ferula kuhistanica* afforded seven daucane-type sesquiterpenes, called kuhistanicaol A-G (e.g. I, kuhistanicaol A) together with 13 known daucane esters. Their structures were established on the basis of spectroscopic evidence and the results of chemical reactions.

IT 302342-52-5P, Kuhistanicaol B 302342-54-7P,
 Kuhistanicaol D
 RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
 (from *Ferula kuhistanica*)

RN 302342-52-5 CAPLUS

CN Benzoic acid, 4-hydroxy-, (3R,3aS,4S,8aR)-6-formyl-1,2,3,3a,4,5,8,8a-octahydro-3-hydroxy-8a-methyl-3-(1-methylethyl)-4-azulenyl ester (9CI)
 (CA INDEX NAME)

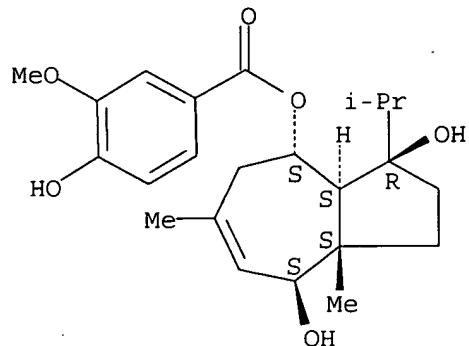
Absolute stereochemistry. Rotation (+).



RN 302342-54-7 CAPLUS

CN Benzoic acid, 4-hydroxy-3-methoxy-, (3R,3aS,4S,8S,8aS)-1,2,3,3a,4,5,8,8a-octahydro-3,8-dihydroxy-6,8a-dimethyl-3-(1-methylethyl)-4-azulenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:294524 CAPLUS

Correction of: 1998:104683

DOCUMENT NUMBER: 130:294014

Correction of: 128:203022

TITLE: Chemical constituents of rocks of *Ferula licentiana* var. *tunshanica* and *F. kingdonwardii* and their systematical significance

AUTHOR(S): Wang, Nianhe; Yuan, Changqi; Baba, Kimie; Taniguchi, Masahiko; Doi, Mitsunobu

CORPORATE SOURCE: Institute of Botany, Jiangsu Province and Chinese Academy of Sciences, Nanjing, 210014, Peop. Rep. China

SOURCE: Zhiwu Ziyuan Yu Huanjing (1997), 6(4), 15-18, 49
CODEN: ZZYHEJ; ISSN: 1004-0978

PUBLISHER: Zhiwu Ziyuan Yu Huanjing Bianjibu

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

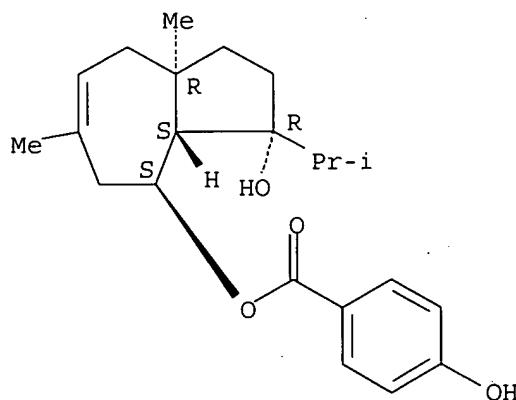
AB Latifolone, p-anisic acid, veratric acid, fercomin, ferutidin, ferutinin, jaeschkeanadiol varatrate, terferin, 1-(7,8-dimethoxy-5,6-methylenedioxyphenyl)propyl (Z)-2-methyl-1-butenoate and 4,11,11,10-tetramethyl-1,10-oxirane-4-ene-6-germacrane varatrate were isolated from the ether exts. of the roots of *Ferula licentiana* Hand.-Mazz. var. *tunshanica* Shan et Q. X. Liu and *F. kingdonwardii* Wolff. Among them, 1-(7,8-dimethoxy-5,6-

methylenedioxy phenyl) Pr (Z)-2-methyl-butenoate is a new compound. These two Ferulious plants were distributed on the border of the distribution of this genus, but 7-O-sesquiterpene, one of the characteristic compds. of this genus, was not detectable in these species, and the components of these two plants were similar and comparatively simple. It was suggested that perhaps Ferula L., like some other Umbelliferous plants such as Angelica L., also originated from the south-west China.

IT 41743-44-6P, Ferutinin 54526-95-3P, Teferin
 RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
 (chemical constituents of roots of ferula licentiana var. tunshanica and F. kingdonwardii and systematical significance)

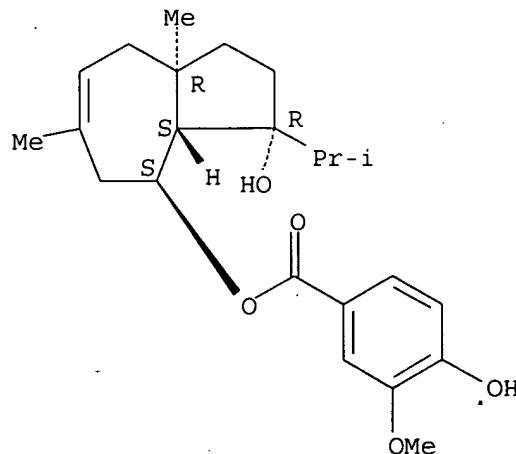
RN 41743-44-6 CAPLUS
 CN Benzoic acid, 4-hydroxy-, (3R,3aS,4S,8aR)-1,2,3,3a,4,5,8,8a-octahydro-3-hydroxy-6,8a-dimethyl-3-(1-methylethyl)-4-azulenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



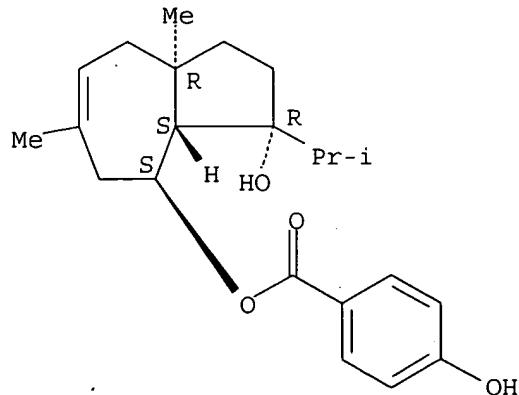
RN 54526-95-3 CAPLUS
 CN Benzoic acid, 4-hydroxy-3-methoxy-, (3R,3aS,4S,8aR)-1,2,3,3a,4,5,8,8a-octahydro-3-hydroxy-6,8a-dimethyl-3-(1-methylethyl)-4-azulenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



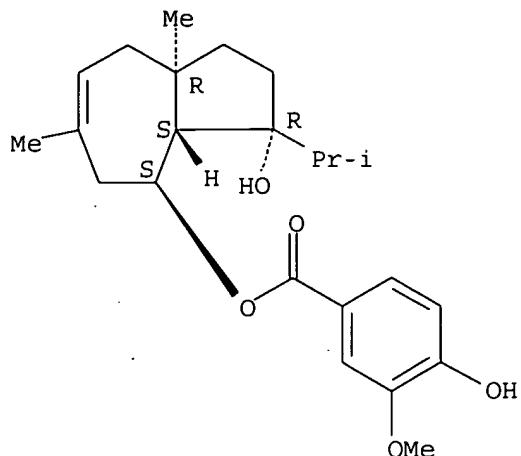
ACCESSION NUMBER: 1998:104683 CAPLUS
 DOCUMENT NUMBER: 128:203022
 TITLE: Chemical constituents of roots of *Ferula licentiana*
 var. *tunshanica* and *F. kingdonwardii* and their
 systematical significance
 AUTHOR(S): Wang, Nianhe; Yuan, Changqi; Kimie Baba; Masahiko
 Taniguchi; Mitsunobu Doi
 CORPORATE SOURCE: Institute of Botany, Jiangsu Province and Chinese
 Academy of Sciences, Nanjing, 210014, Peop. Rep. China
 SOURCE: Zhiwu Ziyuan Yu Huanjing (1997), 6(4), 15-18, 49
 CODEN: ZZYHEJ; ISSN: 1004-0978
 PUBLISHER: Zhiwu Ziyuan Yu Huanjing Bianjibu
 DOCUMENT TYPE: Journal
 LANGUAGE: Chinese
 AB Latifolone, p-anisic acid, veratric acid, feromin, ferutidin, ferutinin,
 jaeschkeanadiol varatrate, terferin, 1-(7,8-dimethoxy-5,6-methylenedioxy
 phenyl)propyl (Z)-2-methyl-1-butenoate and 4,11,11,10-tetramethyl-1,10-
 oxirane-4-ene-6-germacrane varatrate were isolated from the ether exts. of
 the roots of *Ferula licentiana* Hand.-Mazz. var. *tunshanica* Shan et Q. X.
 Liu and F. *kingdonwardii* Wolff. Among them, 1-(7,8-dimethoxy-5,6-
 methylenedioxy phenyl) Pr (Z)-2-methyl-butenoate is a new compound. These
 two Ferulious plants were distributed on the border of the distribution of
 this genus, but 7-O-sesquiterpene, one of the characteristic compds. of
 this genus, was not detectable in these species, and the components of
 these two plants were similar and comparatively simple. It was suggested
 that perhaps *Ferula* L., like some other Umbelliferous plants such as
 Angelica L., also originated from the south-west China.
 IT 41743-44-6P, Ferutinin 54526-95-3P, Teferin
 RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP
 (Properties); PUR (Purification or recovery); BIOL (Biological study);
 OCCU (Occurrence); PREP (Preparation)
 (chemical constituents of roots of *ferula licentiana* var. *tunshanica* and
 F. kingdonwardii and systematical significance)
 RN 41743-44-6 CAPLUS
 CN Benzoic acid, 4-hydroxy-, (3R,3aS,4S,8aR)-1,2,3,3a,4,5,8,8a-octahydro-3-
 hydroxy-6,8a-dimethyl-3-(1-methylethyl)-4-azulenyl ester (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.



RN 54526-95-3 CAPLUS
 CN Benzoic acid, 4-hydroxy-3-methoxy-, (3R,3aS,4S,8aR)-1,2,3,3a,4,5,8,8a-
 octahydro-3-hydroxy-6,8a-dimethyl-3-(1-methylethyl)-4-azulenyl ester (9CI).
 (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:844841 CAPLUS

DOCUMENT NUMBER: 124:4913

TITLE: Carotane sesquiterpenes from *Ferula sinaica* Boiss growing in Egypt

AUTHOR(S): Ibraheim, Zidan Z.; Darwish, Faten M. M.; Abdel-Halim, Osama B.; Halim, Ahmed F.

CORPORATE SOURCE: Faculty Pharmacy, Assiut University, Assiut, Egypt

SOURCE: Alexandria Journal of Pharmaceutical Sciences (1995), 9(2), 115-20

CODEN: AJPSES; ISSN: 1110-1792

PUBLISHER: University of Alexandria, Faculty of Pharmacy

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Phytochem. investigation of the air-dried roots of *Ferula sinaica* Boiss resulted in the isolation and identification of ten known carotane sesquiterpenes. Of these, seven compds. were isolated for the first time from this species and characterized as: 1- α -angeloyloxy-5- α -p-methoxybenzoyloxy-10- β -hydroxydauc-2-ene, lanceradiol p-methoxybenzoate, p-methoxybenzoate of epoxyjaeschkeanadiol, p-hydroxybenzoate of epoxyjaeschkeanadiol, isolancerotriol-5-p-methoxybenzoate, 1 α - β -hydroxy-5- α -p-methoxybenzoyloxy-10- β -hydroxydauc-2-ene and 1- α -hydroxy-5- α -p-methoxybenzoyloxy-10- β -hydroxydauc-2-ene in addition to β -sitosterol. Identification of the isolated compds. was established using phys. and spectroscopic methods.

IT 41743-44-6P 119425-93-3P 170971-43-4P,

Ferulinkiol 1- α -hydroxy-5- α -p-hydroxybenzoate

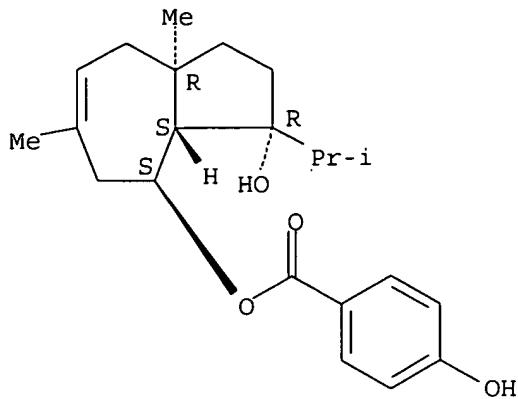
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)

(carotane sesquiterpenes from *Ferula sinaica* growing in Egypt)

RN 41743-44-6 CAPLUS

CN Benzoic acid, 4-hydroxy-, (3R,3aS,4S,8aR)-1,2,3,3a,4,5,8,8a-octahydro-3-hydroxy-6,8a-dimethyl-3-(1-methylethyl)-4-azulenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

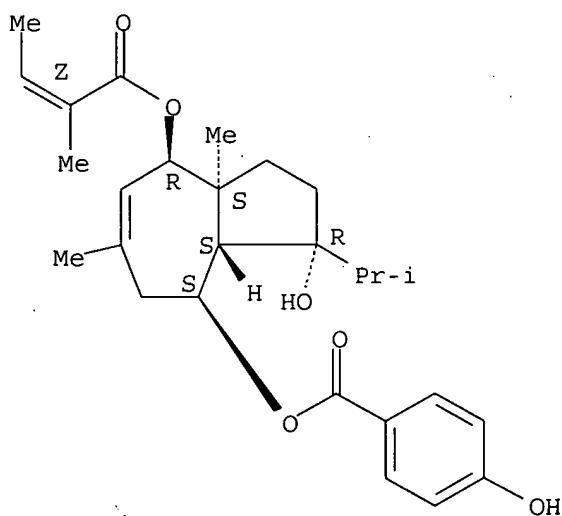


RN 119425-93-3 CAPLUS

CN Benzoic acid, 4-hydroxy-, 1,2,3,3a,4,5,8,8a-octahydro-3-hydroxy-6,8a-dimethyl-3-(1-methylethyl)-8-[(2-methyl-1-oxo-2-butenyl)oxy]-4-azulenyl ester, [3R-[3a,3aβ,4β,8β(Z),8aα]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.

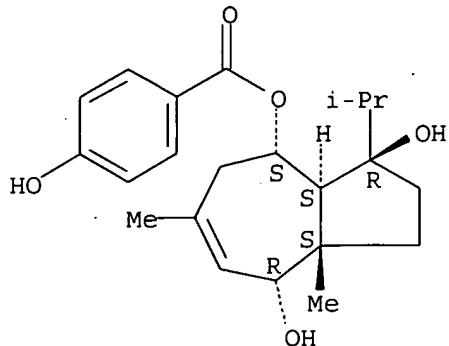


RN 170971-43-4 CAPLUS

CN Benzoic acid, 4-hydroxy-, 1,2,3,3a,4,5,8,8a-octahydro-3,8-dihydroxy-6,8a-dimethyl-3-(1-methylethyl)-4-azulenyl ester, (3a,3aβ,4β,8beta,8aα)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

Currently available stereo shown.



L4 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1980:471992 CAPLUS

DOCUMENT NUMBER: 93:71992

TITLE: Structure of jaeschferin

AUTHOR(S): Bizhanova, K. B.; Saidkhodzhaev, A. I.; Malikov, V. M.

CORPORATE SOURCE: Inst. Khim. Rastit. Veshchestv, Tashkent, USSR

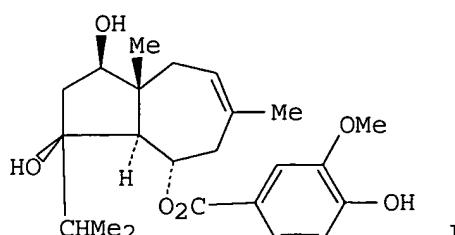
SOURCE: Khimiya Prirodnnykh Soedinenii (1980), (1), 127-8

CODEN: KPSUAR; ISSN: 0023-1150

DOCUMENT TYPE: Journal

LANGUAGE: Russian

GI



AB The structure of jaeschferin (I), a sesquiterpene ester isolated from Ferula iaeschkeana, was confirmed by mass and NMR spectra.

IT 74345-97-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 74345-97-4 CAPLUS

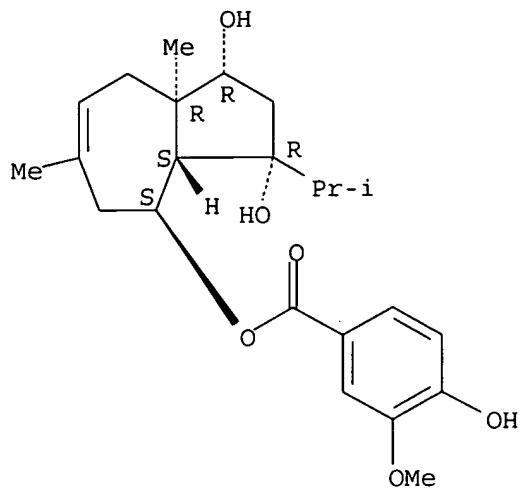
CN Benzoic acid, 4-hydroxy-3-methoxy-, 1,2,3,3a,4,5,8,8a-octahydro-1,3-dihydroxy-6,8a-dimethyl-3-(1-methylethyl)-4-azulenyl ester, diacetate, (1 α ,3 α ,3a β ,4 β ,8a α) - (9CI) (CA INDEX NAME)

CM 1

CRN 74285-96-4

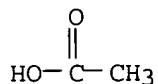
CMF C23 H32 O6

Rotation (+). Absolute stereochemistry unknown.



CM 2

CRN 64-19-7
 CMF C2 H4 O2



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(FILE 'HOME' ENTERED AT 16:16:32 ON 30 JAN 2007)

FILE 'REGISTRY' ENTERED AT 16:16:43 ON 30 JAN 2007

L1 STRUCTURE uploaded
 L2 4 S L1 SSS SAM
 L3 29 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 16:18:12 ON 30 JAN 2007

L4 15 S L3/PREP

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